

Translation

PATENT COOPERATION TREATY

PCT/JP2003/012023



# PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference S03P1111WO00	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP2003/012023	International filing date (day/month/year) 19 September 2003 (19.09.2003)	Priority date (day/month/year) 20 September 2002 (20.09.2002)
International Patent Classification (IPC) or national classification and IPC H04B 7/26		
Applicant SONY CORPORATION		

<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of _____ sheets.</p>	
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>	

Date of submission of the demand 24 March 2004 (24.03.2004)	Date of completion of this report 07 December 2004 (07.12.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP2003/012023

## I. Basis of the report

## 1. With regard to the elements of the international application:\*

- ☒ the international application as originally filed
- ☐ the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the claims:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, as amended (together with any statement under Article 19  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the drawings:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/fig \_\_\_\_\_

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

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## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Claims		YES
	Claims	1-21	NO
Inventive step (IS)	Claims		YES
	Claims	1-21	NO
Industrial applicability (IA)	Claims	1-21	YES
	Claims		NO

### 2. Citations and explanations

Document 1: JP, 2000-232458, A (KOKUSAI ELECTRIC CO., LTD.), 22 August 2000.

The subject matter of claims 1-21 is described as follows in paragraph [0007] through paragraph [0023] and paragraph [0040] through [0051] of document 1 cited in the ISR.

"A system wherein a base station equipped with a plurality of directional antennas manages and correlates the identifiers of substations capable of wireless communication with the directional antennas used in communication with the relevant substations and switches directional antennas according to the relevant management contents and wirelessly sends data signals to a substation, and a substation that received the relevant data signal wirelessly sends a reception confirmation signal to the base station; when, for example, performing downlink data communication from the base station to the substation, even if the relevant substation moves from the control of a directional antenna managed by the base station to the control of another directional antenna, the base station finds the relevant substation and resets the substation's management contents to an appropriate directional antenna."

"At the base station management means manages and correlates the identifiers of substations capable of wireless communication and the directional antennas used in communication with the relevant substations, and data sending means switches data signals for a substation to a managed directional antenna corresponding to the identifier of the relevant substation and performs wireless communication."

"Even if a substation moves from the control of a directional antenna managed by the base station to the control of another directional antenna, the base station can reset the management contents of the management means to contents correlating the relevant substation's identifier and another relevant directional antenna in accordance with the other relevant directional antenna having received a response signal from the relevant substation in response to the aforesaid query signal."

"The wireless data communication system is a wireless LAN system, and the aforesaid base station's plurality of antennas comprises a sector antenna in which a plurality of sector units with directivity are disposed in a radiating manner."

"The base station's query means wirelessly sends the aforesaid query signal by switching from a sector unit that sent a wireless transmission to the next adjacent sector unit."

"In the control unit 15 a CCB table Q2 of the same sort as shown in Fig. 9 for example is provided in each substation 2 accommodated by the base station 1 in a memory such as a RAM 31, and status number 72 and sector number 73, etc., for each substation 2 are set by the CPU 30 in this CCB table Q2 to correspond to identifiers 71a and 71c of each substation 2 accommodated by the base station 1, and are changed at the appropriate time, etc."

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**Supplemental Box**

(To be used when the space in any of the preceding boxes is not sufficient)

**Continuation of Box V:**

“When the CPU 30 wirelessly sends a permission signal or a data signal or a reception confirmation signal to a substation 2, the management contents of the aforesaid CCB table Q2 are referenced by the CPU 30, and based on this the CPU 30 switches to a managed sector unit corresponding to the identification number of the relevant substation 2, and wirelessly sends the data signal, etc.”

Therefore the subject matter of claims 1-21 is essentially no different from the invention described in document 1 based on the foregoing description, so it is not novel and does not involve an inventive step.